



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/798,464	03/12/2004	Kyoung Ro Yoon	3449-0312PUS1	7735
2292 7590 04/24/2008 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747				
EXAMINER				
KHAN, ASHER R				
ART UNIT		PAPER NUMBER		
4134				
NOTIFICATION DATE		DELIVERY MODE		
04/24/2008		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary

Application No.

10/798,464

Applicant(s)

YOON ET AL.

Examiner

ASHER KHAN

Art Unit

4134

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-85/86)
Paper No(s)/Mail Date 4/2/2008; 2/19/2008
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Inventor's Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Objections

1. Claim 17 is objected to because of the following informalities: Acronym GOS is used instead of Group of shots. Appropriate correction is required

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. **Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 5,884,056 to Steele.**

As to claim 1, Steele and Tiongson disclose a video reproducing method, characterized in that a second movement location is selected among a plurality of candidate locations existing within a window, the window being set up with reference to a first movement location selected by a user's request for a drag and play (Steele, Figs. 4, 7 and 8)(Steele, Col. 9, lines 12-67).

4. **Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent Pub. 2002/0109728 A1 to Tiongson et al "Tiongson".**

As to claim 1, Steele and Tiongson disclose a video reproducing method, characterized in that a second movement location is selected among a plurality of candidate locations existing within a window, the window being set up with reference to

a first movement location selected by a user's request for a drag and play (Tiongson, Figs. 3, 4 and 8A)(Tiongson, 0011-0013, 0044-0045, 0052) .

5. Claim 2-10, 15-17 and 19-20 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent Pub. 2002/0109728 A1 to Tiongson et al "Tiongson".

As to claim 2, 15 and 19, Tiongson discloses a video reproducing method, comprising the steps of:
selecting a first movement location(Fig. 4, 402) in a video stream according to a request for a drag and play (0044-0045)(0052)(Figs. 3, 4 and 8A);
setting up a window (Fig. 4, scrollable region, 410) designating a predetermined section with reference to the first movement location (0044-0045)(0052)(Figs. 3, 4 and 8A);
selecting one of a plurality of candidate locations as a second movement location, the plurality of candidate locations existing within the window(0044-0045,0052)(Figs. 3, 4 and 8A); and performing a reproduction from the second movement (Chosen from scrollable region in Fig. 4, 410) location (0011-0013)(0044-0045).

As to claim 3, Tiongson further discloses wherein the first movement location is selected by a drag and play function (0011-0013)(0044-0045)(0052).

As to claim 4,Tiongson further discloses wherein the window is set up in one direction with reference to the first movement (Fig 4, 402)location(Figs. 3 and 4)(0045)(when the indicator 402 is on the top most element of first region 304)

As to claim 5 and 16, Tiongson further discloses wherein the window is set up in a bilateral time symmetry with reference to the first movement location (Figs. 3 and

4)(0045)(When the indicator 308 or 402 is positioned as shown in figures 3 and 4 respectively).

As to claim 6, Tionson further discloses wherein the window is set up considering weights according to a direction of the bilateral time symmetry with reference to the first movement location (Figs. 3 and 4)(0044-0045).

As to claim 7, Tionson further discloses wherein a high weight (larger number of indicators) is assigned to a forward window, in case the first movement location is a forward movement with reference to the current reproduction location (Fig. 3 and 4)(0044-0045)(If in the processing of updating the second region 310 indicator 308 or 402 is chosen from indicators 306 while moving forward that it is at the beginning of second area 310)

As to claim 8, Tionson further discloses wherein a high weight (larger number of indicators) is assigned to a reverse window, in case the first movement location is a reverse movement with reference to the current reproduction location (Fig. 3 and 4)(0044-0045)(If in the processing of updating the second region 310 indicator 308 or 402 is chosen from indicators 306 while moving reverse that it is at the beginning of second area 310)

As to claim 9, Tionson further discloses wherein the plurality of candidate locations are change locations of semantic/structural information existing within the window (Fig. 7, column 706, numeric indicators 726).

As to claim 10, Tiongson further discloses wherein the plurality of candidate locations are locations determined at the first movement location by an intelligent skip (Figs. 3 and 4)(0044-0045).

As to claim 17, Tiongson further discloses wherein the plurality of candidates are change locations of one shot based on GOS (indicators) information (Figs. 3 and 4)(0044-0045)(0051).

As to claim 20, Tiongson discloses a video reproducing apparatus, comprising:
an input means for inputting a drag and play command (0028)(0044-0045)(0052)(Figs. 3, 4 and 8A);

a control means for selecting a first movement location according to the inputted drag and play command, selecting one of candidate locations as a second movement location, the candidate locations existing within a predetermined section with reference to the selected first movement location, and controlling a reproduction to be performed from the second movement location(Figs. 1, 3, 4, 8A)(0044-0045)(0052);

a media storage means for storing video streams to be provided according to a request of the control means (Figs. 1, 3, 4, 8A)(0034-0035)(0044-0045)(0052);

an index storage means for storing semantic/structural information or shot information to be provided according to a request of the control means(Fig. 1)(0012)(0044-0045); and

a display means for displaying the video stream reproduced from the control means (Fig. 1)(0012)(0044-0045).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claim 11, 12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Pub. 2002/0109728 A1 to Tiongson et al "Tiongson" and U.S. Patent 5,884,056 to Steele.

As to claim 11, Steele discloses wherein the second movement location is selected by a weight according to an offset between the plurality of candidate locations and the first movement location (Abstract)(Figs. 3-7)(Col. 3, lines 39-67;Col. 4, lines 1-37)(Col. 5, lines 51-67;Col. 6 lines 1-67).

At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify Tiongson with the teaching of Steele. The motivation to combine would have been to allow a user to view a desirable portion with in a video allowing the user to skip without wasting time in watching whole portions of a movie.

As to claim 12, Steele discloses wherein the second movement location is selected by weights according to lengths of semantic/structural segments existing within the window. (Abstract)(Figs. 3-7)(Col. 3, lines 39-67;Col. 4, lines 1-37)(Col. 5, lines 51-67;Col. 6 lines 1-67)(Col 8, lines 10-55). In addition same motivation is used as the rejection for claim 11.

As to claim 14, Steele discloses wherein the second movement location is selected considering both weights according to the offset between the candidate locations and the first movement location and weights according to lengths of semantic/structural segments (Abstract)(Figs. 3-7)(Col. 3, lines 39-67;Col. 4, lines 1-37)(Col. 5, lines 51-67;Col. 6 lines 1-67). In addition same motivation is used as the rejection for claim 11.

Therefore it would have been obvious to combine Tiongson with Steele to make the modifications as described in claims 11, 12 and 14.

8. Claim 13 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Pub. 2002/0109728 A1 to Tiongson et al "Tiongson" and U.S. Patent 5,574,845 to Benson et al. "Benson".

As to claim 13, Benson discloses wherein the second movement location is selected by weights according to shot lengths existing within the window, in case the plurality of candidate locations are determined by an intelligent skip (Abstract)(Figs. 2A-6)(Col. 13, lines 1-65)

At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify Tiongson with the teaching of Benson. Rationale would be that all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, and the combination would have yielded predictable results to one of ordinary skill in the art at the time of invention.

As to claim 18, Benson discloses wherein the second movement location is selected by weights according to lengths of shots existing within the window (Abstract)(Figs. 2A-6)(Col. 13, lines 1-65).

At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify Tiongson with the teaching of Benson. Rationale would be that all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, and the combination would have yielded predictable results to one of ordinary skill in the art at the time of invention.

Therefore it would have been obvious to combine Tiongson with Benson to make the modifications as described in claims 13 and 18.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ASHER KHAN whose telephone number is (571)270-5203. The examiner can normally be reached on Monday-Friday 9:30 am - 5 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lun Yi can be reached on (571)272-7671. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2622

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. K./

Examiner, Art Unit 4134

/Yogesh K Aggarwal/

Primary Examiner, Art Unit 2622